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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,178 09/19/2000		David Gilbert	462-99-012	1901	
128	7590	12/15/2003	EXAMINER		
		ERNATIONAL IN	NGUYEN,	NGUYEN, HUY D	
101 COLUN P O BOX 22		LD	ART UNIT	PAPER NUMBER	
MORRISTO	OWN, NJ	07962-2245	2681	2681	
				DATE MAILED: 12/15/2003	8

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
	Office Action Comment	09/665,1	78	GILBERT, DAVID				
	Office Action Summary	Examine	•	Art Unit				
	The MAIL ING DATE of this	Huy D Ng	<del>_</del>	2681				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the	e cover sneet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1)⊠	Responsive to communication(s) filed on 27	October 200	<u>3</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ Th	is action is no	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠	4)⊠ Claim(s) <u>1-34 and 37-41</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	☑ Claim(s) <u>12,18,26,34 and 41</u> is/are allowed.							
6)□	Claim(s) <u>1-7,9-11,13-15,17,19-23,25,27-31,33,37-38 and 40</u> is/are rejected.							
	☑ Claim(s) <u>8,16,24,32 and 39</u> is/are objected to.							
8)	Claim(s) are subject to restriction and	or election r	equirement.					
Applicat	ion Papers							
9)[	The specification is objected to by the Exami	ner.						
10)	The drawing(s) filed on is/are: a) a	ccepted or b)	Objected to by the I	Examiner.				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
_	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. §§ 119 and 120								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>								
Attachmen			<b>"</b> П.,					
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	)		(PTO-413) Paper No(s) atent Application (PTO-152)				

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## DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2, 4-7, 10-11, 13, 15, 19-20, 22-23, 27-28, 30-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Corbefin et al. (U.S. Patent No. 6,269,243) in view of Miyake (U.S. Patent No. 5,732,334).

Regarding claims 1-2, 4-7, 10-11, 13, 15, 19-20, 22-23, 27-28, 30-31, a telecommunication system, comprising: an interface device (e.g., device 1) on board an aircraft that interfaces with a wireless phone (e.g., personal radio communication means R) of a user inside the aircraft and with a wireless bearer system (FIG. 1; Col. 3, lines 40-45). Corbefin et al. do not clearly teach a controller that controls RF emissions of the wireless phone to maintain the RF emissions below a predetermined level. Miyake teaches a transmitter that includes a control unit for controlling the transmitter RF output to a predetermined power (Col. 2, lines 21-34; Col. 3, lines 19-37) to conform to a standard in which the transmitter is operating (col. 1, lines 25-28). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Miyake to Corbefin et al.'s system to have means of authority 5

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compel radio means R to operate to a predetermined level as taught by Miyake to conform to a standard in which the transmitter is operating.

4. Claims 3, 14, 21, 29, 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Corbefin et al. (U.S. Patent No. 6,269,243) in view of Miyake (U.S. Patent No. 5,732,334) and in further view of Zicker (U.S. Patent No. 5,995,833).

Regarding claims 3, 14, 21, 29, 37-38, the combination of Corbefin et al. and Miyake does not teach registering the wireless phone as a roaming subscriber through the SATCOM system to a cellular network and then with a public switched telephone network. Zicker teaches registering the wireless phone as a roaming subscriber through the SATCOM system to a cellular network and then with a public switched telephone network (Fig. 1; col. 8, line 66 – col. 9, line 22) for system validation and establishing roaming mode (col. 9, line 18). It would have been obvious to one having ordinary skill in the art at the time the invention was made to apply the teaching of Zicker to the system of combination of Corbefin et al. and Miyake for system validation and establishing roaming mode.

5. Claims 9, 17, 25, 33, 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Corbefin et al. (U.S. Patent No. 6,269,243) in view of Miyake (U.S. Patent No. 5,732,334) and in further view of Ray et al. (U.S. Patent No. 6,108,539).

Regarding claims 9, 17, 25, 33, 40, the combination of Corbefin et al. and Miyake does not teach direct communication between the wireless phone and the cellular system when the aircraft is on the ground. Ray et al. teach a multidimensional cellular mobile telecommunication system that can communicate with both ground-based and non-terrestrial mobile subscriber stations(col. 3, lines 25-54). It would have been obvious to one having ordinary skill in the art at

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the time the invention was made to apply the teaching of Ray et al. to the system of combination of Corbefin et al. and Miyake to extend the usage of existing cellular mobile network to non-terrestrial mobile subscribers as taught by Ray et al. (col. 3, lines 49-52).

## Allowable Subject Matter

- 6. Claims 8, 16, 24, 32, 39 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 12, 18, 26, 34, 41 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding claims 12, 18, 26, 34, 41, the cited prior arts fail to teach a telecommunication system, comprising:

an interface device on board an aircraft that interfaces with a wireless phone of a user inside the aircraft and with a SATCOM system, interface device receiving signals from and transmitting signals to the wireless phone, receiving signals from and transmitting signals to the SATCOM system, and interfacing through the SATCOM system to a cellular network and then with a public switched telephone network to register the wireless phone as a roaming to subscriber on the contacted cellular network;

a controller that controls interface device to maintain RE emissions of the wireless phone below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems;

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a SATCOM gateway on board the aircraft that converts signals received from the wireless phone to protocols of the SATCOM system and that converts signals received from the SATCOM system to protocols of the wireless phone;

an antenna in a cabin of the aircraft that receives output signals from the wireless phone and conveys the output signals to interface device;

a media converter that conveys the signals between antenna and interface device; an RF detector that detects unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein controller alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected by RF detector; and an external antenna that respectively transmits and receives direct cellular signals to and from the wireless phone when the aircraft is on the ground.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy D Nguyen whose telephone number is 703-305-3283. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 703-305-4040. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-6750.

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SINH TRAN PRIMARY EXAMINER